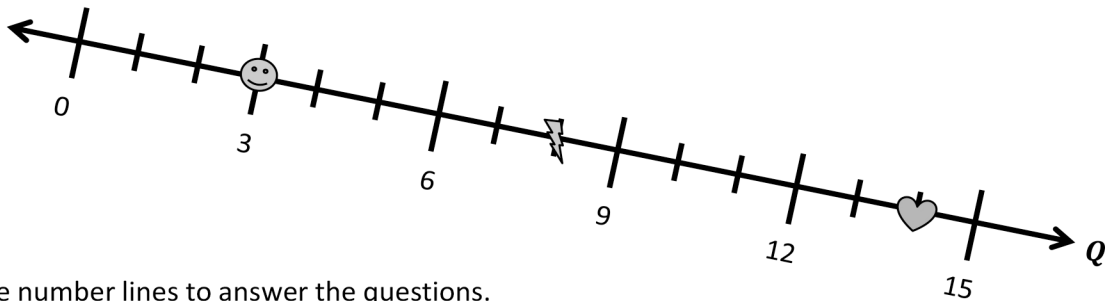Name _____   Date _____
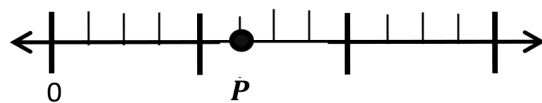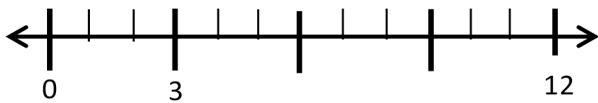
1. Answer the following questions using number line Q, below.

   a. What is the coordinate, or the distance from the origin, of the 😊 ? _____

   b. What is the coordinate of ⚡ ? _____

   c. What is the coordinate of 🤍 ? _____

   d. What is the coordinate at the midpoint of ⚡ and 🤍 ? _____
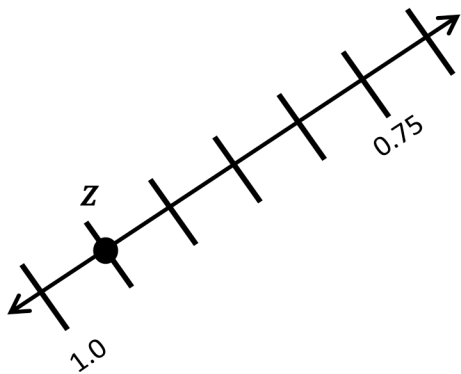

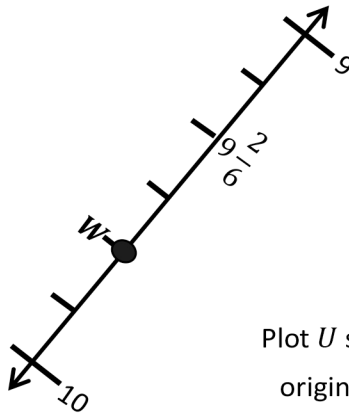2. Use the number lines to answer the questions.

Plot T so its distance from the origin is 10.

Plot M so its distance is $\frac{11}{4}$ from the origin.

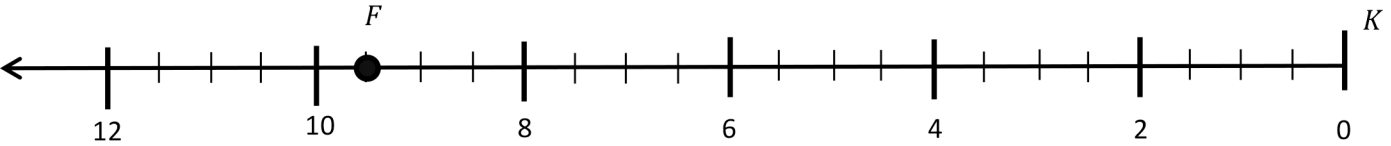What is the distance from P to M?

Plot a point that is 0.15 closer to the origin than Z.

Plot U so that its distance from the origin is $\frac{3}{6}$ closer than that of W.

3. Number line K shows 12 units. Use number line K, below, to answer the questions.

| 12 | | | | 10 | F | | | 8 | | | | 6 | | | | 4 | | | | 2 | | | | 0 | K |

a. Plot a point at 1. Label it A.

b. Label a point that lies at $3\frac{1}{2}$ as B.

c. Label a point, C, whose distance from zero is 8 units farther than that of B.

   The coordinate of C is _____.

d. Plot a point, D, whose distance from zero is $\frac{6}{2}$ closer to zero than B.

   The coordinate of D is _____.

e. What is the coordinate of the point that lies $\frac{17}{2}$ farther from the origin than D?

   Label this point E.

f. What is the coordinate of the point that lies halfway between F and D?

   Label this point G.

4. Mr. Baker's fifth-grade class buried a time capsule in the field behind the school. They drew a map and marked the location of the capsule with an X so his class can dig it up in ten years. What could Mr. Baker have done to make the capsule easier to find?

PLAYGROUND

BASEBALL

SCHOOL
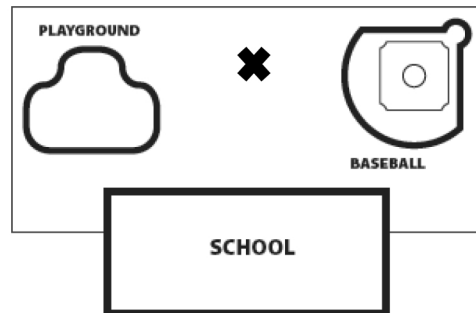
Answer Key

1. a. 3

    b. 8

    c. 14

    d. 11

2. 10 tick marks from the left

    11 tick marks from the left

    3 tick marks from the right

    1 tick mark from the right

3. a. Second tick mark left of 0

    b. 7 tick marks left of 0

    c. $11\frac{1}{2}$

    d. $\frac{1}{2}$

    e. 9

    f. 5

4. Explanations will vary.